Flexpro™ Thermiculite® 845 is a critical service gasket designed for use in applications involving high temperatures and aggressive chemical media.

**Service**

Flexpro™ 845® consists of a serrated metal core onto which is bonded a vermiculite based sealing face. The metallic core provides gasket rigidity and blow-out resistance while the soft Thermiculite 845® facing provides exceptional sealing performance.

Flexpro™ 845® gaskets are suitable for use in a wide range of sealing applications. They are capable of creating a high integrity seal in the most demanding environments, even in load compromised situations. Typical applications include superheated steam, strong oxidising media and elevated temperature service. The metallic core material can be selected to suit specific applications.

Flexpro™ gaskets can be manufactured to recognised international standards or to suit bespoke connections. This gasket style is commonly used in TEMA type flanges on shell and tube heat exchangers and can be fitted with passbars to suit any design.

**Materials**

- **Facing material**: Thermiculite®
- **Serrated metallic core**: Typical stainless 316 (Wide range of other metals available to match application).
- **Bond Type**: Adhesive

**Styles**

- Flexpro™ gaskets are available in several styles with various serration profiles.
  - Style PN – Sealing element only
  - Style ZG – Sealing element with integrated outer ring
  - Style ZA – Sealing element with loose outer ring

Serration profiles are Flexitallic standard or user requested to match the facing material and application. They can be supplied with original DIN 2697, shallow, modified or ball profile. Specialised designs incorporating asymmetric thicknesses or extra thick cores can be specified.

**Availability**

- **Gasket size diameter**: Up to 5000mm
- **Standard thickness range**: 2.0mm to 5.0mm

Please contact our Applications Engineering Department for applications outside these parameters.

- **Colour**: Golden

**Typical Physical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickness</td>
<td>0.5mm</td>
</tr>
<tr>
<td>Density</td>
<td>1.2 to 1.3g/cm³</td>
</tr>
<tr>
<td>ASTM F152 Tensile Strength</td>
<td>4.3MPa</td>
</tr>
<tr>
<td>Chloride Ion Content</td>
<td>&lt; 50ppm</td>
</tr>
<tr>
<td>Fluoride Ion Content</td>
<td>&lt; 50ppm</td>
</tr>
</tbody>
</table>

* refers to facing material only.

**Waranty exclusion**

In view of the variety of different installation and operation conditions as well as application and process engineering options, the information given in this datasheet can only provide approximate guidance and cannot be used as basis for warranty claims.